MD 97 is considered to run in a North/South direction.

EXISTING SIGNALS

7,8,9,10

R
Y
G
12"

EXISTING SIGNS

11

Frederick Road

D-3(1)
16" x Var.

12,13

ONLY

R 3-5(R)
30" x 36"

EXISTING NEMA PHASING

FLASHING OPERATION

PROPOSED SIGNALS

3,6

R
Y
G
12" L.E.D.

1,4

R
Y
G
12"/8" L.E.D.

2,5

R
Y
G
12" L.E.D.

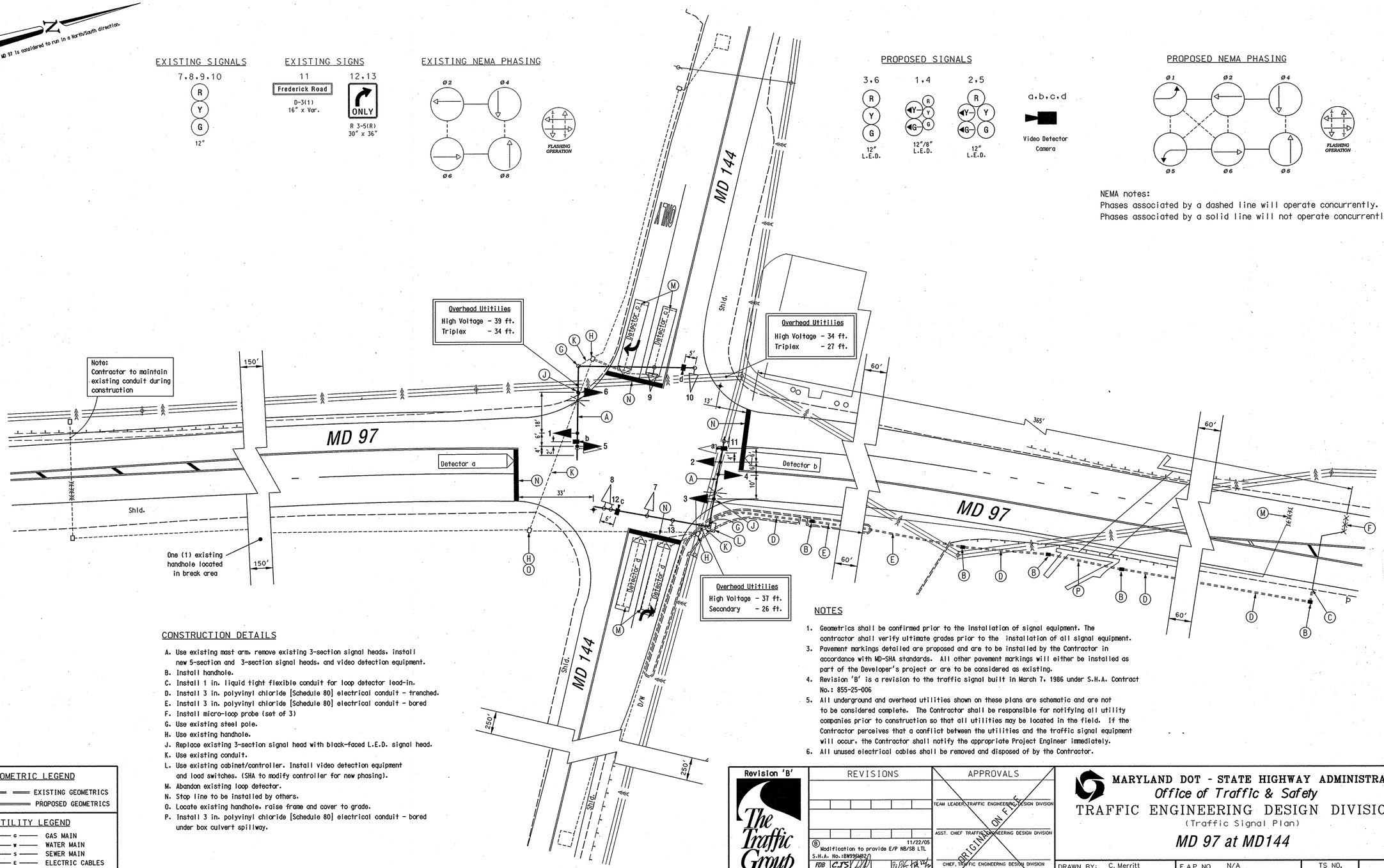
a,b,c,d

Video Detector Camera

PROPOSED NEMA PHASING

FLASHING OPERATION

NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.



CONSTRUCTION DETAILS

A. Use existing mast arm, remove existing 3-section signal heads, install new 5-section and 3-section signal heads, and video detection equipment.
B. Install handhole.
C. Install 1 in. liquid tight flexible conduit for loop detector lead-in.
D. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
E. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored
F. Install micro-loop probe (set of 3)
G. Use existing steel pole.
H. Use existing handhole.
J. Replace existing 3-section signal head with black-faced L.E.D. signal head.
K. Use existing conduit.
L. Use existing cabinet/controller. Install video detection equipment and load switches. (SHA to modify controller for new phasing).
M. Abandon existing loop detector.
N. Stop line to be installed by others.
O. Locate existing handhole, raise frame and cover to grade.
P. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored under box culvert spillway.

NOTES

1. Geometrics shall be confirmed prior to the installation of signal equipment. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
3. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings will either be installed as part of the Developer's project or are to be considered as existing.
4. Revision 'B' is a revision to the traffic signal built in March 7, 1986 under S.H.A. Contract No.: 855-25-006
5. All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.
6. All unused electrical cables shall be removed and disposed of by the Contractor.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
STORM DRAIN
AERIAL CABLES
TELEPHONE CABLES

Revision 'B'

The Traffic Group
The Traffic Group, Inc.
410-931-6600
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REVISIONS

B 11/22/05 Modification to provide E/P NB/SB LTL
S.H.A. No.:BW996M82
FDB CJS TH

A 01/26/89 Mod ICB to full color - full Act. Signal
S.H.A. No. MD-710-451-785
TS/ME TH

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)

MD 97 at MD144

DRAWN BY:	C. Merritt	F.A.P. NO.	N/A	TS NO. 2168B	SHEET NO. 1 OF 2
CHECKED BY:	R. Zacherl	S.H.A. NO.	BW996M82		
SCALE:	1" = 20'	COUNTY:	Howard	T.I.M.S. NO. H-155	
DATE:	3-7-86	LOG MILE:	13009706.36		

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